AMENDMENTS TO THE CLAIMS

Current additions to the claims are noted with <u>underlined</u> text. Current deletions from the claims are indicated by <u>strikethrough</u> or [[bracketed]] text.

- 2 (Cancelled).
- 3 (Currently Amended). The amino acid composition of claim 1, wherein said amino acid composition comprises the following compound:

- 4 (Cancelled).
- 5 (Currently Amended). The amino acid composition of claim 1, wherein both the amine functionality and the carboxylic acid functionality on the amino acid <u>composition</u> are protected, and wherein the amino acid has a general formula of -HN-CH(R)-C(O)-O-.

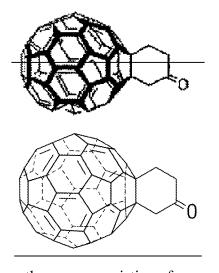
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- 6 (Currently Amended). The amino acid composition of claim 1, wherein one of either the amine functionality or the carboxylic acid functionality on the amino acid <u>composition</u> is protected, and wherein the amino acid <u>composition</u> has a general formula of at least one of -HN-CH(R)-C(O)-OH[[-]] <u>or and H2N-CH(R)-C(O)-O-</u>.
- 7 (Original). The amino acid composition of claim 6, wherein the amine functionality is protected with a protecting group selected from the group consisting of Boc, Fmoc, and combinations thereof.
- 8 (Cancelled).
- 9 (Previously Presented). The amino acid composition of claim 1, wherein the fullerene species is endohedrally-doped with a species selected from the group consisting of radioactive species, non-radioactive species, metals, gases, spin 1/2 nuclei, and combinations thereof.
- 10 (Currently Amended). A synthetic polymer comprising an amino acid composition, wherein the amino acid composition has a general formula of at least-one of $H_2N-CH(R)-C(O)-NH-$ or and -HN-CH(R)-C(O)-NH-, and wherein the R functionality comprises a fullerene species derived from a buckyketone.
- 11 (Previously Presented). The synthetic polymer of claim 10, further comprising at least one naturally occurring amino acid.
- 12 (Currently Amended). The synthetic polymer of claim 10, wherein the synthetic polymer is selected from the group consisting of peptide chains, polypeptides, <u>and</u> proteins, <u>and</u> combinations thereof.
- 13 (Previously Presented). The synthetic polymer of claim 10, wherein the synthetic polymer is

a protein exhibiting a biological function selected from the group consisting of enzymatic functions, antibody functions, oxygen transport, ion transport, and combinations thereof.

- 14 (Cancelled).
- 15 (Currently Amended). The synthetic polymer of claim <u>10</u> <u>14</u>, wherein the fullerene species provides for reaction "pockets" within said polymer.
- 16 (Currently Amended). The synthetic polymer of claim <u>10</u> <u>14</u>, wherein the fullerene species serves as a link between at least two amino acids.
- 17 (Currently Amended). A method comprising the steps of:
 - a) reacting the following compound



with a compound selected from the group consisting of:

wherein R is a protecting group,

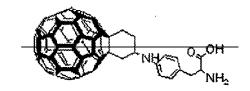
and combinations thereof to yield an imine intermediate; and

b) hydrogenating the imine intermediate with BH₃-THF to yield at least one product selected from the group consisting of

,wherein R is a protecting group,

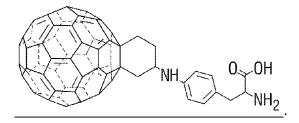
and combinations thereof.

- 18 (Previously Presented). The method of claim 17, further comprising a deprotection step.
- 19 (Cancelled).
- 20 (Currently Amended). The method of claim 18, wherein the method yields the following compound:



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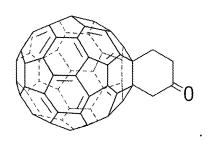
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21-25 (Cancelled).

26 (New). The method of claim 17, wherein the protecting group is Boc.

27 (New). The amino acid composition of claim 1, wherein the buckyketone comprises the following compound:



28 (New). The synthetic polymer of claim 10, wherein the buckyketone comprises the following compound:

